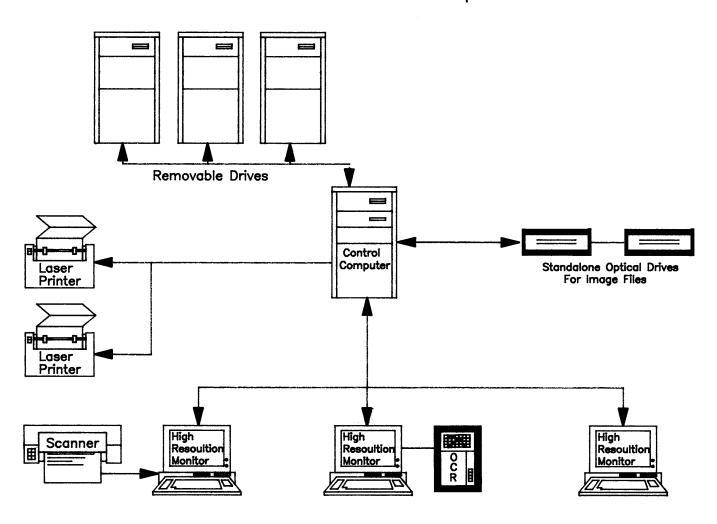
Declassified and Approved For Release 2013/02/13 : CIA-RDP93B01194R001700050004-8

ORIS Architecture Concept



Declassified and Approved For Release 2013/02/13: CIA-RDP93B01194R001700050004-8

Option I - Stand-alone Computer System

0	1 - SUN 3/280S-PL3V3 file server with data center cabinet and a 892 MB disk	\$47,200
0	3 - SUN 3/60hm-8 diskless workstations	21,500
0	4 - 8MB memory expansion boards	24,320
0	3 - 252A high-resolution monitors	7,200
0	Boards for ethernet controller & SUN-IPC	2,200
0	Optical disk with optical cable and terminator	15,500
o	2 - Laser printers	30,000
0	Softwares (SUN IPC-M-01 IPC, SUNOS, etc.)	1,000
ó	4 - UNIFY-00 (Right to use license)	8,000
0	650B 1/4" tape drive for backup files	2,250
0	BHK Scanner (Palantir) \$55,000	0
0	BHK Scan & Retrieval Package	?
0	Optical Character Recognition	? ====== \$159,170

These figures are estimates based on the STARS system using by Office of Security and they may not be the true values.

- 3. All hardwares except palantir are NOT tempested. (May require shelld walls or place system in the New Building)
- 4. Require at least one technical and one backup operators who understand the system entirely. They are the ones who operate the system.

ORIS Storage Requirements:

Text Files:

80 bytes per line
x 66 lines per page
====
5,280 bytes per page
x 400,000 pages
========
2,112,000,000 uncompressed bytes
1,478,400,000 compressed bytes at 70%

Image Files:

12-inch optical disk = one gigabyte of data (approx. 20,000 images)

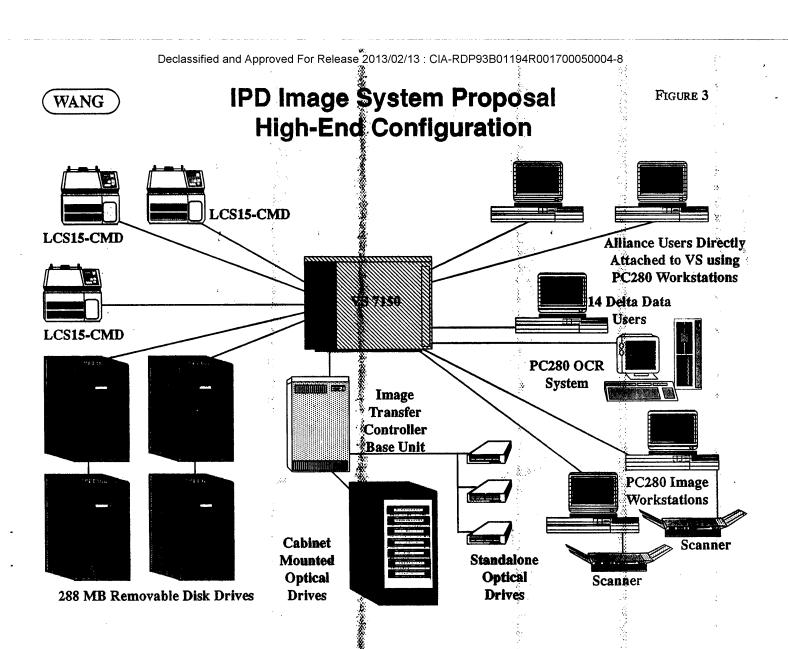
400,000 pages = >20 optical disks

Disk Type and Characteristics:

1 IBM 3380 - 2.52 GB Storage per unit

4 WANGVS 288mb - 1.15 GB Storage

1 SUN 892mb - 892 MB Storage



OPTION III - WIIS AND EVERYONE ON VS

- o VS7150T
- o 14 PC280Ts for DELTA DATAS
- O COMMUNICATIONS HARDWARE AND SOFTWARE FOR MAINFRAME
- o TWO TO EIGHT IMAGE WORKSTATIONS
- o OCR
- o SCANNER
- o OPTICAL DRIVE
- o FOUR 288mb DISK DRIVES
- o THREE LASER PRINTERS

Declassified and Approved For Release 2013/02/13 : CIA-RDP93B01194R001700050004-8

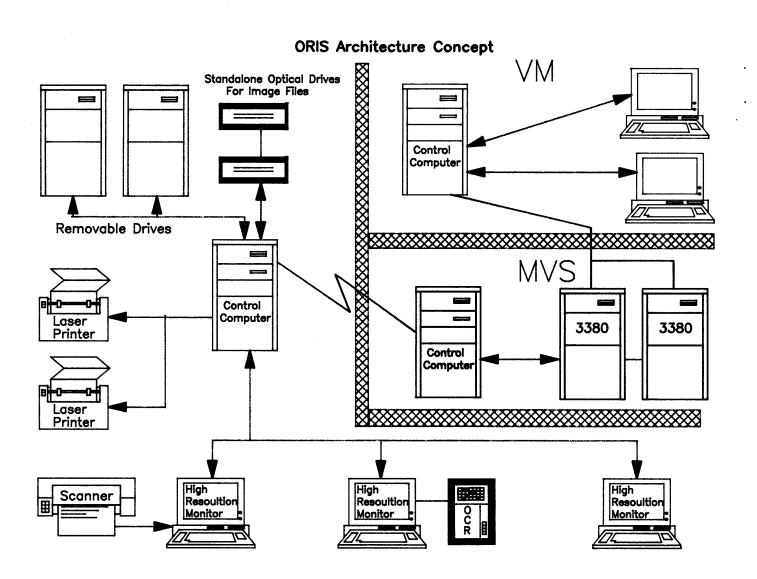
	VS FAMILY						WANG		
	5E 6E 75E			85		100		300	
	5430	5440	5450	5460	7010	7110	7120	7150	7310
Devices	20	32	48	96	128	255	255	255	255
Connect WS	6	16	32	64	96	128	128	128	192
Concurrent Users	1-4	4-12	10-20	20-50	35-50	35-70	50-100	60-120	100-192
Disk Storage (Gb)	2.2	4.1	6.4	12.2	5.4	7.2	10.8	10.8	18
Main Memory (Mb)	1-2	2-8	2-8	4-16	4-32	4-32	4-32	4-32	8-32

OPTION II - WIIS AND VS HUB FOR ALLIANCES

- o VS75ET
- o 14 PC280Ts for DELTA DATAS
- O COMMUNICATIONS HARDWARE AND SOFTWARE
 ALLIANCE AND MAINFRAME
- o TWO TO EIGHT IMAGE WORKSTATIONS
- o OCR
- o SCANNER
- o OPTICAL DRIVE
- o FOUR 288mb DISK DRIVES
- o THREE LASER PRINTERS

Declassified and Approved For Release 2013/02/13 : CIA-RDP93B01194R001700050004-8 IPD Image System Proposal FIGURE 2 WANG Mid-Range Configuration 14 Delta Data Users on Scanners **Alliance** PC280 Users TCT Workstations PC 280 Imaging TCT Alliance Workstations Users VS75E LCS15-CMD Laser Printers 288 MB Removable **Drives** Standalone **Optical** PC 280 Imaging **Drives Workstations** PC280 OCR Systems

Declassified and Approved For Release 2013/02/13: CIA-RDP93B01194R001700050004-8



Declassified and Approved For Release 2013/02/13: CIA-RDP93B01194R001700050004-8

Option II - Stand-alone Computer System Interfacing with Mainframe (VM/MVS)

0	1 - SUN 3/280S-PL3V3 file server with data center cabinet and a 892 MB disk	\$47,200
0	3 - SUN 3/60hm-8 diskless workstations	21,500
0	4 - 8MB memory expansion boards	24,320
0	3 - 252A high-resolution monitors	7,200
0	Boards for ethernet controller & SUN-IPC	2,200
0	Optical disk with optical cable and terminator	15,500
0	2 - Laser printers	30,000
0	Softwares (SUN IPC-M-01 IPC, SUNOS, etc.)	1,000
0	4 - UNIFY-00 (Right to use license)	8,000
0	650B 1/4" tape drive for backup files	2,250
0	BHK Scanner (Palantir) \$55,000	0
0	BHK Scan & Retrieval Package	?
0	Optical Character Recognition	? ====== \$159,170

These figures are estimates based on the STARS system using by Office of Security and they may not be the true values.

NOTES:

- 1. Can replace the control computer with smaller hard disk because all text files will be stored in 3380 disks under MVS. The cost for the control computer will be less.
- Can reduce to two diskless workstations instead of three because all requesters can do their work thru VM without ISD assistance. It would save about \$16,000.

Normal Procedures:

- 1. The users log on the VM system and query for any document. They forward the document identifier numbers to the ISD staff thru AIM, phone calls, etc. for the hard-copy documents.
- 2. The ISD staff make hard-copy documents from the optical disk thru laser printer and mail them to the requesters.

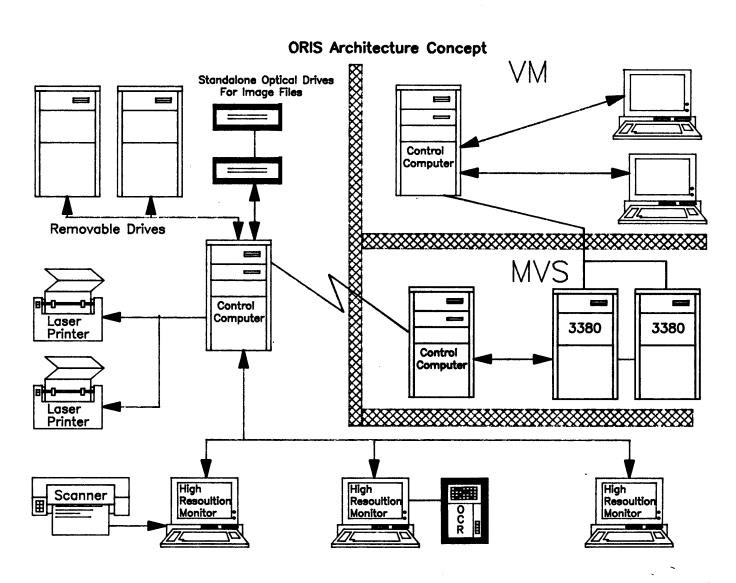
Advantages:

- 1. The ISD staff will be less relying by the customers to find the documents.
- 2. The system
 - improves the speed up process for recording documents.
 - query accurately thru full-text search or index search.
 - improve the quality and speed up the dissemination process.

Disadvantages:

- 1. All three systems (VM, MVS, Standalone) are required to execute together to maximize the ORIS process. If one of them is down for some reasons, the ORIS process may be limited or may not function at all.
- 2. Users will be required to take training.
- 3. All hardwares except palantir are NOT tempested. (May require sheild walls or place system in the New Building)
- 4. Require at least one technical and one backup operators who understand the system entirely. They are the ones who operate the system.
- 5. Software maintenance or/and hardware replacement for the VM/MVS system is UNPREDICTABLE. It may impact on the ORIS system when VM or MVS architecture is modified. (For example: 3380 drive may be changed to different drive and requires program changes, etc.)

6. OIT may have to develop software for Scan/Retrieval package for VM/MVS environment.



Declassified and Approved For Release 2013/02/13: CIA-RDP93B01194R001700050004-8

Option II - Stand-alone Computer System Interfacing with Mainframe (VM/MVS)

0	1 - SUN 3/280S-PL3V3 file server with data center cabinet and a 892 MB disk	\$47,200
0	3 - SUN 3/60hm-8 diskless workstations	21,500
0	4 - 8MB memory expansion boards	24,320
0	3 - 252A high-resolution monitors	7,200
0	Boards for ethernet controller & SUN-IPC	2,200
0	Optical disk with optical cable and terminator	15,500
0	2 - Laser printers	30,000
0	Softwares (SUN IPC-M-01 IPC, SUNOS, etc.)	1,000
0	4 - UNIFY-00 (Right to use license)	8,000
0	650B 1/4" tape drive for backup files	2,250
0	BHK Scanner (Palantir) \$55,000	0
0	BHK Scan & Retrieval Package	?
0	Optical Character Recognition	? ====== \$159,170

These figures are estimates based on the STARS system using by Office of Security and they may not be the true values.

NOTES:

- 1. Can replace the control computer with smaller hard disk because all text files will be stored in 3380 disks under MVS. The cost for the control computer will be less.
- Can reduce to two diskless workstations instead of three because all requesters can do their work thru VM without ISD assistance. It would save about \$16,000.

Normal Procedures:

- 1. The users log on the VM system and query for any document. They forward the document identifier numbers to the ISD staff thru AIM, phone calls, etc. for the hard-copy documents.
- 2. The ISD staff make hard-copy documents from the optical disk thru laser printer and mail them to the requesters.

Advantages:

- 1. The ISD staff will be less relying by the customers to find the documents.
- 2. The system
 - improves the speed up process for recording documents.
 - query accurately thru full-text search or index search.
 - improve the quality and speed up the dissemination process.

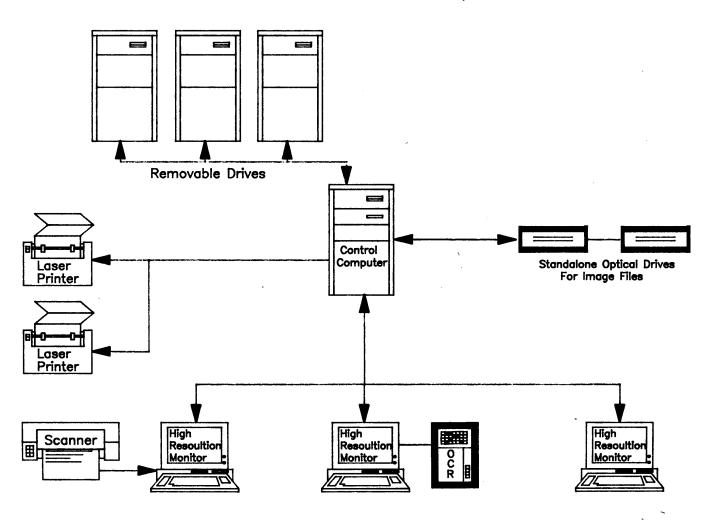
Disadvantages:

- 1. All three systems (VM, MVS, Standalone) are required to execute together to maximize the ORIS process. If one of them is down for some reasons, the ORIS process may be limited or may not function at all.
- 2. Users will be required to take training.
- All hardwares except palantir are NOT tempested. (May require shelld walls or place system in the New Building)
- 4. Require at least one technical and one backup operators who understand the system entirely. They are the ones who operate the system.
- 5. Software maintenance or/and hardware replacement for the VM/MVS system is UNPREDICTABLE. It may impact on the ORIS system when VM or MVS architecture is modified. (For example: 3380 drive may be changed to different drive and requires program changes, etc.)

6. OIT may have to develop software for Scan/Retrieval package for VM/MVS environment.

Declassified and Approved For Release 2013/02/13: CIA-RDP93B01194R001700050004-8

ORIS Architecture Concept



Declassified and Approved For Release 2013/02/13 : CIA-RDP93B01194R001700050004-8

Option I - Stand-alone Computer System

0	1 - SUN 3/280S-PL3V3 file server with data center cabinet and a 892 MB disk	\$47,200
0	3 - SUN 3/60hm-8 diskless workstations	21,500
0	4 - 8MB memory expansion boards	24,320
0	3 - 252A high-resolution monitors	7,200
0	Boards for ethernet controller & SUN-IPC	2,200
0	Optical disk with optical cable and terminator	15,500
0	2 - Laser printers	30,000
0	Softwares (SUN IPC-M-01 IPC, SUNOS, etc.)	1,000
0	4 - UNIFY-00 (Right to use license)	8,000
0	650B 1/4" tape drive for backup files	2,250
0	BHK Scanner (Palantir) \$55,000	0
0	BHK Scan & Retrieval Package	?
0	Optical Character Recognition	? ====== \$159,170

These figures are estimates based on the STARS system using by Office of Security and they may not be the true values.

Normal Procedures:

- 1. The users forward the requests to the ISD staff thru AIM, phone calls, etc. for the documents.
- 2. The ISD staff scan for any documents by either full-text search or index search (searching for key words or fields).

NOTE: For speedy and accurate retrieval, a document image index is critical.

3. The ISD staff make hard-copy documents from the optical disk thru laser printer and mail them to the requesters.

Advantages:

- 1. This system operates independently.
- 2. ISD controls the system independently.
- 3. The system
 - improves the speed up process for recording documents.
 - query accurately thru full-text search or index search.
 - improve the quality and speed up the dissemination process.
- 4. All hardware/software are located in ISD office. (Better accessability and maintenance)

Disadvantages:

1. Requesters have to send requests to ISD staff for documents.

NOTE: The requesters may use one of ISD workstations to scan for any document if they are willing to stop by the ISD office.

2. ISD staff have to do the scan/query documents.

- 3. All hardwares except palantir are NOT tempested. (May require sheild walls or place system in the New Building)
- 4. Require at least one technical and one backup operators who understand the system entirely. They are the ones who operate the system.

ORIS Storage Requirements:

Text Files:

80 bytes per line
x 66 lines per page
=====
5,280 bytes per page
x 400,000 pages
========
2,112,000,000 uncompressed bytes
1,478,400,000 compressed bytes at 70%

Image Files:

12-inch optical disk = one gigabyte of data (approx. 20,000 images)

400,000 pages = >20 optical disks

Disk Type and Characteristics:

1 IBM 3380 - 2.52 GB Storage per unit

4 WANGVS 288mb - 1.15 GB Storage

1 SUN 892mb - 892 MB Storage